| Index of | Claims |
|----------|--------|
|          |        |

| Application No.  | Applicant(s)      |  |
|------------------|-------------------|--|
| 10/810,378       | BROOKS, EDWARD J. |  |
| Examiner         | Art Unit          |  |
| Janet M. Wilkens | 3637              |  |

| / | Rejected | - | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| 1 | Allowed  | + | Restricted                     |

| N | Non-Elected  | Α | Appeal   |
|---|--------------|---|----------|
| ı | Interference | 0 | Objected |

| Cla         | aim             |  |          | Da          | ate                                     |                       |          |  | Cla  | aim                        |  |                 |          | Dat           | e        |               |                    | CI   | aim        |                 |          | _        |           | ate      | ,             |          |                   |          |
|-------------|-----------------|--|----------|-------------|---|-----------------------|----------|--|--|----------------------------|--|-----------------|----------|---------------|----------|---------------|--------------------|--|------------|-----------------|----------|----------|-----------|----------|---------------|----------|-------------------|----------|
| ľ _         | al              |  |          | 1 1         |   |                       |          |  | _  | <del></del>                | ĮΣ   |                 |          | ı             |          |               | H                  | _  | <u>8</u>   |                 |          |          | - 1       |          |               |          |                   |          |
| Final       | Original        |  |          |             |   |                       |          |  | Final  | Original                   | SoleIIA  |                 |          |               |          |               |                    | Final  | Original   |                 |          |          |           | - 1      |               |          |                   |          |
| 证           | Öj              |  |          |             |   |                       | 1        |  | ĬĨ,  | Ö                          | 13   |                 |          |               | 1        |               |                    | Œ  | Ö          |                 |          | l        | - 1       | - 1      |               |          |                   |          |
|             |                 | Ш  |          |             | 44                                      |                       | ↓_       |  |  |                            | 3  | Ш               | 4        | $\bot$        | $\sqcup$ | $\perp$       | Ш                  |  |            | Щ               | _        | _        |           |          |               |          | _                 | _        |
| <u> </u>    | 1               | Ш  |          | +           |   | L                     | ↓_       |  |  | 51                         | ļ  |                 | 4        | _             | $\sqcup$ | _             | Щ                  | ļ  | 101        | $\Box$          | _        | _        | _         | $\dashv$ | _             | -        | $\dashv$          | $\dashv$ |
| <u></u>     | 2               | $\vdash$   | _        | ++          |   | <del></del>           | ↓_       |  |  | 52                         | ļ  | $\sqcup$        | 4        | +             | $\vdash$ | $\rightarrow$ | Щ                  | <u> </u>   | 102        | $\sqcup$        | $\dashv$ | -        |           | 1        |               | _        | $\dashv$          | 4        |
| Ь           | В               | -  | -        |             |   |                       | ┼        |  | <u> </u>   | 58                         | ┡  |                 | 4        | +             | $\sqcup$ | $\perp$       | Ы                  | <u> </u>   | 103        | $\vdash$        | -        | $\dashv$ |           |          |               | -        | $\dashv$          | $\dashv$ |
| <u> </u>    | 4               | $\vdash$   | +        | ++          |   |                       | ╀        |  |  | 54                         | <u> </u>   |                 |          | -             | $\vdash$ |               |                    |  | 104        | $\vdash \vdash$ | -        |          |           | $\dashv$ |               | $\dashv$ | $\dashv$          | $\dashv$ |
| <u> </u>    | 5               |  | -        | ++          |   | -                     | ┼        |  |  | 55<br>57<br>58<br>59<br>60 | <u> </u>   | $\sqcup$        | 4        | +             | $\vdash$ |               | Н                  | <u> </u>   | 105        |                 |          |          | $\dashv$  | $\dashv$ | -             | $\dashv$ | $\dashv$          | $\dashv$ |
|             | 6               | $\vdash$   |          | ++          | -                                       | -                     | ┼        |  |  | 30                         | ├  | $\vdash$        | -        |               | ╁╼╂      |               | Н                  | <u> </u>   | 106<br>107 | $\vdash$        | $\dashv$ | -        | $\dashv$  |          |               | -        | -                 | $\dashv$ |
|             | 7               | $\vdash$   |          | +           | -                                       |                       | +        |  |  | 3/                         | ┢  |                 | -+       | +             | +        | _             | $\vdash$           |  | 107        | $\vdash$        | $\dashv$ | $\dashv$ |           |          | $\dashv$      | +        | -+                | ᅱ        |
| <u> </u>    | 9               | $\vdash$   | +        | ++          | +                                       | -                     | +-       |  |  | 30                         | ├  | $\vdash$        | -        |               | +        |               | H                  |  | 109        | $\vdash$        | $\dashv$ | ┥        | ᅱ         | $\dashv$ |               | -        | $\dashv$          | $\dashv$ |
|             | 10              | $\vdash$   |          | ++          | +                                       | $\vdash$              | ╁╌       |  | <u> </u>   | 3                          | ├—   | Н               | +        | ╬             | ╁╌┤      |               | Н                  |  | 110        | $\vdash$        | $\dashv$ | $\dashv$ | ᅱ         | ⊣        |               | -+       | $\dashv$          | $\dashv$ |
| <u> </u>    | 11              | $\vdash$   | +        | ++          | +                                       | $\vdash$              | +        |  |  | 61                         | $\vdash$   | $\vdash$        | $\dashv$ | +             | $\vdash$ | +             | $\dashv$           | $\vdash$   | 111        | $\vdash \vdash$ | $\dashv$ |          |           |          |               | $\dashv$ | $\dashv$          | $\dashv$ |
| <u> </u>    | 12              | $\vdash$   |          | +           | +                                       | -                     | +        |  |  | 62                         | <del>                                     </del> | $\vdash$        | $\dashv$ | +             | $\vdash$ | +             | ┼┤                 | <del> </del>                                     | 112        | $\vdash \vdash$ |          |          | $\dashv$  | ┪        | $\dashv$      | $\dashv$ | $\dashv$          | $\dashv$ |
| -           | 13              | <del>                                     </del> | +        | ++          | +                                       | $\vdash$              | +-       |  | <del> </del>                                     | 68                         | 1  | $\vdash \vdash$ | $\dashv$ |               | $\vdash$ | -             | ${oldsymbol{	op}}$ | <del>                                     </del> | 113        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$          | $\dashv$ |
|             | 14              |  | +        | ++          | +                                       | $\vdash$              | +        |  | <b>—</b>   | 64                         | $\vdash$   | $\vdash \vdash$ | $\dashv$ | +-            | $\vdash$ | $\dashv$      | $\vdash \vdash$    | <b></b>  | 114        | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$          | $\dashv$ |
|             | 15              | $\vdash$   | +        | ++          | +                                       | $\vdash$              | +        |  | <b>-</b>   | 65                         | <b>/</b>   | $\vdash \vdash$ | -+       | +             | Н        | +             | $\forall$          | <del></del>                                      | 115        | $\vdash$        | $\dashv$ | _        | $\dashv$  | -        |               | -+       | +                 | $\dashv$ |
| $\vdash$    | 16              |  | +        | 1-1-        | +                                       | $\vdash$              | +        |  | <del>                                     </del> | 66                         | 1  | $\vdash$        | $\dashv$ | -+-           | +        | -+            | ${f H}$            | <del>                                     </del> | 116        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  | -        |               | $\dashv$ | $\dashv$          | $\dashv$ |
| _           | 17              | $\vdash$   |          | ╁┼          |   | $\vdash$              | +        |  |  | 67                         | H  | $\vdash$        | $\dashv$ | +             | +        | -             | H                  | _  | 117        |                 |          | $\dashv$ | $\dashv$  | 一        | 一             | 7        | $\dashv$          | $\dashv$ |
| <b></b>     | 18              | $\vdash$   | $\dashv$ | ╁┼┼         | +                                       |                       | ╁─       |  |  | 68                         | H  | $\vdash$        | $\dashv$ | +             | +        |               | $\vdash$           |  | 118        |                 |          | -        | -         |          |               | +        | -+                | $\dashv$ |
| <del></del> | 19              | $\vdash$   | +        | +-          |   | -                     | +        |  |  | 69                         | ╫  | $\vdash$        | +        | +-            | +        | +-            | Н                  |  | 119        |                 | $\dashv$ | $\dashv$ | $\dashv$  | -        | -             | -        | $\dashv$          | ᅥ        |
| <u> </u>    | 20              |  | +        | 1           | +                                       | $\vdash$              | +        |  |  | 70                         | H  | H               | _        | +-            | +        | $\dashv$      | Н                  |  | 120        | H               | $\dashv$ | $\dashv$ | $\dashv$  |          | $\dashv$      | _        | _                 | $\dashv$ |
| -           | 21              | -  | +        | ++          | +                                       | $\vdash$              | 1        |  |  | 71                         | Н  | H               | -+       | +             | 1        | $\dashv$      | $\vdash$           |  | 121        | Н               | $\dashv$ | -        |           | $\dashv$ | $\neg$        | _        | $\dashv$          | $\dashv$ |
|             | 22              | $\vdash$   | +        | 1 1         | +                                       | $\vdash$              | +        |  |  | 72                         | ╫  | $\vdash$        | _        |               | +        | _             | Н                  |  | 122        | H               | $\dashv$ |          |           | - 1      |               | 1        | 十                 | $\dashv$ |
| $\vdash$    | 23              | $\vdash$   |          | +-          | +                                       | $\vdash\vdash$        | +        |  |  | 73                         | ╫╌   | -               | $\dashv$ |               | t        | +             | Н                  |  | 123        | H               | _        | $\neg$   |           | $\neg$   | $\dashv$      | 1        | $\dashv$          | $\neg$   |
| -           | 94              | $\vdash$   |          | +           |   |                       | 1-       |  |  | 74                         | ╫╴   | $\vdash$        | $\dashv$ | _             | ╁┈┤      |               | Н                  |  | 124        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  | _        | $\dashv$      | _        | _                 | $\neg$   |
| <u> </u>    | 24<br>25        | $\vdash$   | +        | 11          | +                                       | $\vdash$              | +        |  |  | 75                         | ╫╴   |                 | $\dashv$ | $\dashv$      | +        |               | $\vdash$           |  | 125        | -               | _        |          | 一         | ᅥ        | _             | $\neg$   | $\dashv$          | $\dashv$ |
|             | 26              | H  |          | +           | -                                       |                       | +        |  |  | 76                         | #-   | $\vdash$        | _        | +             | $\vdash$ | $\neg$        | Н                  |  | 126        | $\Box$          | $\dashv$ |          |           | _        | $\dashv$      | 1        | 寸                 | _        |
|             | 26<br>27        |  | +        | 11          | +                                       | $\vdash$              | +        |  |  | 77                         | $^{\dagger\dagger}$                              | H               |          | $\top$        | T        |               | П                  |  | 127        |                 | T        | $\dashv$ | $\exists$ |          |               |          | 寸                 | ヿ        |
|             | 28              |  | +        | 1-1-        |   |                       | +        |  |  | 78                         | Ħ  | Ħ               | _        |               | $\Box$   | $\neg$        | П                  | <b></b>  | 128        | Н               |          |          |           |          | $\neg$        |          | _                 | $\neg$   |
|             | 29              |  | $\vdash$ | T           |   |                       | T        |  |  | 79                         | 1  | $\vdash$        | _        | $\top$        | $\Box$   | $\dashv$      | $\vdash$           |  | 129        | Н               | $\dashv$ | $\neg$   |           |          | $\neg$        | _        | _                 | ╗        |
|             | 80              |  | 1        |             |   |                       | T        |  |  | 80                         | T  | $\vdash$        | $\neg$   | $\neg$        | $\Box$   | _ _           | $\vdash$           |  | 130        | H               | T        |          | $\neg$    |          | $\neg$        |          | $\exists$         | $\neg$   |
|             | β1              | H  | 1        | 11          |   |                       | 1        |  |  | 81                         | $\sqcap$   | $\Box$          |          | $\neg \vdash$ | $\vdash$ | _             | М                  |  | 131        | П               |          |          |           | _        | 一             |          | 寸                 |          |
|             | 32              | $\Box$   |          | $\top$      | $\neg$                                  |                       | $\top$   |  |  | 82                         | П  |                 |          |               | Ħ        |               | П                  |  | 132        |                 |          |          |           |          |               | Ì        | $\Box$            | ヿ        |
|             | 33              |  |          | 177         |   |                       | $\top$   |  |  | 83                         | П  |                 |          |               | П        |               |                    |  | 133        |                 | $\neg$   |          |           |          |               |          | $\Box$            | П        |
|             | 34              |  |          |             |   |                       |          |  |  | 84                         | $\Box$   |                 | $\_$ $T$ |               |          |               |                    |  | 134        |                 |          |          |           |          |               |          |                   |          |
|             | 35              |  |          |             | $oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |                       |          |  |  | 85                         | П  |                 |          |               |          |               |                    |  | 135        |                 | $\Box$   |          |           |          |               |          |                   |          |
|             | 36              |  |          |             |   |                       |          |  |  | 86                         | $\prod$  |                 |          |               |          |               |                    |  | 136        |                 |          |          |           |          |               | $\Box$   | $oldsymbol{\bot}$ |          |
|             | 37              |  |          |             |   |                       |          |  |  | 87                         | $\prod$  |                 |          |               |          |               |                    |  | 137        |                 | $\Box$   |          |           |          |               |          |                   | $\Box$   |
|             | 38              |  |          |             |   |                       |          |  |  | 88                         | $\coprod$  |                 |          |               |          |               |                    |  | 138        |                 | $\Box$   |          |           |          |               | $\Box$   |                   |          |
|             | 39              |  |          |             |   |                       |          |  |  | 89                         | $\prod$  | $\Box$          |          |               |          |               |                    |  | 139        | ĿĪ              | $\Box$   |          |           |          | $\overline{}$ |          |                   |          |
|             | 40              |  |          |             |   |                       |          |  |  | 90                         | $\coprod$  |                 | $\Box$   |               |          |               |                    |  | 140        |                 |          |          |           |          |               | $\Box$   |                   |          |
|             | 41              |  | $\perp$  |             |   |                       |          |  |  | 91                         | 1  |                 |          |               |          |               |                    |  | 141        |                 | I        |          |           |          | I             | $\perp$  | [                 | $\Box$   |
|             | 42              |  |          |             | $\Box$                                  | $\Box\Box$            |          |  |  | 92                         | L  |                 |          |               | Ш        |               | Ш                  |  | 142        | Ш               |          |          |           | ]        | [             |          | $\prod$           |          |
| <u> </u>    | #3              |  |          |             |   |                       | L        |  |  | 93                         |  | Ш               | [        |               | Ш        |               | Ш                  | L  | 143        | Ш               |          |          |           |          |               |          | _                 | _        |
|             | 44<br>45        |  |          |             | $oldsymbol{\perp}$                      |                       | <u> </u> |  | L  | 94                         | <u> </u>   | Ш               |          |               | Ш        | _             | Ш                  |  | 144        |                 |          |          |           | _        |               | _        | _                 |          |
| <u></u>     | #5              | $\Box$   |          |             | $\perp$                                 |                       | <u> </u> |  |  | 95                         | ļ  |                 | $\perp$  |               |          | _             | Ш                  |  | 145        | Ш               |          |          |           |          |               | $\perp$  | ightharpoonup     | $\Box$   |
|             | 46              | Ш  |          |             | $\bot$                                  |                       | _        |  |  | 96                         | <u> </u>   | Ш               |          |               | Ш        | _             | Ш                  | ļ  | 146        | Ш               |          |          |           |          |               |          |                   | _        |
| <u> </u>    | 47              | $\sqcup$   |          | 4-4         |   | $\sqcup \!\!\! \perp$ | 4_       |  |  | 97                         | <u> </u>   | $\sqcup$        |          |               | Ш        |               | Ш                  | L  | 147        | Ш               |          |          |           | _        |               | _        | _                 | _        |
| <u> </u>    | 48              | $\sqcup$   | $\bot$   | $\bot \bot$ | $\bot\!\!\!\!\bot$                      | $oxed{oxed}$          | ↓_       |  |  | 98                         | <u> </u>   | $\sqcup$        | 4        |               | $\sqcup$ | _             | Ш                  | L  | 148        | Щ               | $\sqcup$ | _        |           | _        |               |          | _                 | _        |
| <u></u>     | <b>49</b><br>50 | $\sqcup$   |          | $\bot\bot$  | $\perp \!\!\! \perp \!\!\! \mid$        | $\sqcup \!\!\! \perp$ | <b> </b> |  | L  | 99                         | <del> </del>                                     | $\sqcup$        | _        | _             | Щ        | _             | Ш                  | L  | 149        | $\sqcup$        | $\Box$   |          |           |          |               | ļ        | _                 | $\dashv$ |
|             | 50              |  |          |             |   |                       |          |  |  | 100                        |  | Ш               | 1        |               |          |               | Ш                  |  | 150        |                 |          |          |           |          |               |          |                   |          |